PATENT COOPERATION TREATY

PCT

REC'D 0 4 JUL 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

G1 - 5					
Applicant's or agent's file reference	FOR FURTHER ACTIO				
04-458PCT International application No.	International filing date (day)	/month/year) Priority date (day/month/year)			
	29 September 2004 (29.09.2	1 + -002 (20 00 2003)			
PCT/US04/32038 29 September 2004 (29.09.2004) International Patent Classification (IPC) or national classification and IPC					
IPC(7): H01M 008/12 and US Cl.: 429/32					
Applicant					
AND DIEL CELLS IIC					
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
2. This REPORT consists of a total of sheets, including this cover sheet.					
3. This report is also ac	companied by ANNEXES, comp	orising:			
(cent to the applicant and to the International Bureau) a total of sheets, as follows:					
a. [] (sent to the applicant that to the international statements of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
and Section 607 of the Administrative instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains	indications relating to the follow	ving items:			
Box No. I	Basis of the report				
Box No. II	Priority				
Box No. III	Non-establishment of opinion applicability	on with regard to novelty, inventive step and industrial			
Box No. IV	Lack of unity of invention				
Box No. V	industrial applicability; cita	Article 35(2) with regard to novelty, inventive step or tions and explanations supporting such statement			
Box No. VI	Certain documents cited				
Box No. VI					
Box No. VI	I Certain observations on the	international application			
Date of submission of the den	nand	Date of completion of this report			
02 May 2005 (02.05.2005)		22 June 2005 (22.06.2005)			
Name and mailing address of the IPEA/ US		Authorized officer			
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		John S. Maples			
P.O. Box 1450 Alexandria, Virginia 22313-1450					
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Form PCT/IPEA/409 (cover sheet	Form PCT/IPEA/409 (cover sheet)(January 2004)				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/US04/32038	

Box No.	Basis of the report			
1. With regard to the language, this report is based on the international application in the language in which it was filed,				
	This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:			
ſ	international search (under Rules 12.3 and 23.1(b))			
	publication of the international application (under Rule 12.4)			
ļ	international preliminary examination (under Rules 55.2 and/or 55.3)			
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
\boxtimes	the international application as originally filed/furnished			
\boxtimes	the description: pages 1-9 as originally filed/furnished pages* NONE received by this Authority on pages*			
\boxtimes	the claims: pages 10-13 as originally filed/furnished pages* NONE as amended (together with any statement) under Article 19 pages* NONE received by this Authority on pages*			
	the drawings: pages 1-3 as originally filed/furnished pages* NONE received by this Authority on pages* NONE received by this Authority on			
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.			
3. 🔲	The amendments have resulted in the cancellation of:			
	the description, pages			
	the claims, Nos.			
İ	the drawings, sheets/figs			
	the sequence listing (specify):			
	any table(s) related to the sequence listing (specify):			
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
	the description, pages the claims, Nos the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify):			
* If item 4 applies, some or all of those sheets may be marked "superseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/32038

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims 9, 10, 14-16	YES			
	Claims 1-8, 11-13, 17	NO			
Inventive Step (IS)	Claims 9, 10, 14-16	YES			
inventive step (13)	Claims 1-8, 11-13, 17	NO			
Industrial Applicability (IA)	Claims 1-17	YES			
	Claims NONE	NO			
stack. The components in BADDING ET AL. are all compliant with one another because the same do not undergo degradation upon pressure or force applied to the fuel cell stack. Claims 9-10 and 14-16 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the anode and the cathode side frames each having a plurality of openings within which the seals and the fuel cells are located. The art also does not show the cooling fluid channels carrying out the endothermic processes nor the anode or the cathode seals being floating seals.					
Claims 1-17 meet the criteria set out in PCT Article 33(4), and thus the solid oxide fuel cell has industrial applicability because the subject matter claimed can be made or used in industry.					
NEW CITATIONS	-				